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(54) POROUS TITANIUM OXIDE FINE PARTICLE AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To obtain porous fine particles which are stable in an acidic region and capable of easily carrying hyperfine metallic particle thereon by calcining the particles of the reacted mixture of hydrated titanium oxide and organic acid which has been produced under the specified conditions and thereby forming fine holes.

CONSTITUTION: One or more kinds of dibasic acid, tribasic acid or oxy-acid thereof e.g. oxalic acid, succinic acid, tartaric acid and gluconic acid which are regulated to prescribed concn. (preferably 0.5-5.0mol total of organic acid is dissolved in 5-9l pure water) are heated at definite temp. in a range within 50-100°C. The while this soln. is agitated, a titanium tetrachloride aq. soln. is added thereto and titanium tetrachloride is hydrolyzed. Thereby the particles of the reacted mixture of hydrated titanium oxide and organic acid are deposited. Then these particles are calcined at definite temp. range of 200-400°C in the air oxidative atmosphere. Thereby the aimed fine particles are obtained wherein fine holes are formed as the escaping traces of gas resulting from evaporation and decomposition of organic acid and water incorporated in the inside of the particles.

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